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	Application No.	Applicant(s)	
Notice of Allowability	09/998,288	LU ET AL.	,
	Examiner	Art Unit	
	Eric Hug	1731	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to the amendment filed on March 22, 2004.			
2. The allowed claim(s) is/are <u>17-30</u> .			
3. The drawings filed on 30 November 2001 are accepted by the Examiner.			
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the pnority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be comply including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	been received. been received in Application cuments have been received of this communication to fil ENT of this application. itted. Note the attached EX as reason(s) why the oath of the submitted. on's Patent Drawing Revie	ed in this national stage application of the nation is deficient.	irements
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview S Paper No 8), 7. Examiner's	nformal Patent Application (PTO- Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allow 	·

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Response to Amendment

The following is in response to the amendment filed on March 22, 2004.

Allowable Subject Matter

Claims 17-30 are allowed.

The following is an examiner's statement of reasons for allowance:

The claimed method for cooling a hot drawn fiber in a heat exchanger having a cap assembly is allowed, because the method comprises at least the steps of collecting a cooling gas in the cap assembly, and withdrawing a gaseous exhaust stream comprising the cooling gas and at least one gaseous impurity from the cap assembly by means of a gas pumping means. In prior art methods, exhaust cooling gas and impurities are removed directly from heat exchanger (if removed at all), and the cap assembly serves as a buffer zone to prevent escape and/or contamination of cooling gas that is within the heat exchanger.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Response to Arguments

Applicant's arguments filed March 22, 2004 have been fully considered and are persuasive. The references relied upon previously, Roba (WO 99/26891) and Darcangelo (EP 0 079 186) do not disclose collecting and exhaust cooling gas in a cap assembly and withdrawing the gas from the cap assembly, and therefore do not teach or suggest the claimed method. Roba, in particular Figure 6, explicitly shows that exhaust gas is removed from within the heat exchanger.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Darcangelo et al (US 4,514,205) discloses a fiber cooling apparatus having a cooling tube and an iris diaphragm with nitrogen gas at one end to prevent contamination by air into the cooling tube.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Hug whose telephone number is 571 272-1192. The examiner can normally be reached on Monday through Friday, 10:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700